

Figure 1

Figure 1 consists of two panels, A and B, showing histograms of the number of non-zero elements per row in sparse matrices.

Panel A shows the distribution for the matrix $A_{\text{LAPACK}}^{\text{LAPACK}}$. The x-axis is labeled "Number of non-zero elements per row" and ranges from 0 to 60. The y-axis is labeled "Frequency" and ranges from 0 to 80. The histogram shows a peak frequency of approximately 75 at 10 non-zero elements per row, with a long tail extending up to 60.

Panel B shows the distribution for the matrix $A_{\text{LAPACK}}^{\text{LAPACK}} + \alpha A_{\text{LAPACK}}^{\text{LAPACK}}$. The x-axis is labeled "Number of non-zero elements per row" and ranges from 0 to 60. The y-axis is labeled "Frequency" and ranges from 0 to 80. The histogram shows a peak frequency of approximately 75 at 10 non-zero elements per row, with a long tail extending up to 60.

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